Subsurface Applications Benchmark

Information Pack for 2015 Model

May 2015
Compare, Validate and Benchmark your Upstream Applications Toolkit with industry peers

Data Stores, Licencing and support models also benchmarked

Major redesign for 2015

Our Global Upstream IT Benchmark has been running for 20 years

Benchmark provided with technical support from New Digital Business Ltd
Since 2011, Aupec & NDB have been running the **Subsurface Applications Benchmark (SAB)**

In 2015, the benchmark will examine three main areas:

1. Which applications are used by E&P companies for 20 complete subsurface workflows
2. How these workflows impact on and are supported by databases, both corporate and project
3. How E&P companies support the subsurface process
SAB 2015 – What’s new?
Subsurface Applications Benchmark

Enhanced Data Entry
- Unconventional vs. Conventional workflows
- Updated Support Model
- Smart search – tool tips
- Clearer workflow definitions and updated tool-list

Enhanced Reporting
- Peer Group Reporting
- Improved report interpretation
- Improved readability
- Cloud versus traditional delivery ratio
- Internal business unit reporting

Subscription Benefits
- On demand reporting
- Virtualised User Group
- Prioritisation of SAB development
- Value for money
Survey Scope
Subsurface Applications Benchmark

Participants
Survey aims to encompass companies of all sizes, from Super Major to small independents.

Geography
Survey targets all major Basins in the world.

Timing
Data entry and reporting runs on a 3 month schedule. Your data will be evaluated against the current database of companies.
Technical Scope
Subsurface Applications Benchmark

Applications
Scope is from Initial Basin Reconnaissance to Field Interventions and includes:
G&G, Reservoir Engineering, Drilling & Completions and Production

Databases
Corporate and Project data stores for major subsurface types: wells, seismic and GIS

Support
Global, in-house and outsourced for the subsurface tools and data stores
Workflows to be benchmarked
Subsurface Applications Benchmark

- Petroleum Systems Analysis
- Seismic Processing
- Quantitative Interpretation – Seismic
- Development Engineering – Well Intervention
- Play Fairway Analysis
- Seismic Acquisition
- Quantitative Interpretation – Wells
- Production Systems Modelling
- Mapping
- Reservoir Characterisation
- Static Modelling
- Economic and Reserves Evaluation
- Well Petrophysics
- Structural Compartmentalisation
- Reservoir Simulation
- Well Testing
- Seismic Interpretation
- Geology Interpretation
- Well Planning
- Drilling and Completion
- Reservoir Characterisation
Who uses which tool?

Example from Petroleum System Analysis Workflow

- This is a real example output from our 2014 reports
- Shows most popular tools for this workflow
- Shows sanctioned (preferred) tools
- The target company’s profile is clearly highlighted

Example slide from 2014 benchmark
Other Graphical Analysis

Petroleum System Analysis

The Subsurface Applications Benchmark provides a very detailed analysis of the tools used for each workflow.

Here are some other examples of the graphical analysis for the Petroleum Systems Analysis workflow.

The chart to the right shows the Geographical Coverage by Tool and User Numbers.

The chart below shows the Number of Primary Tools Used in the Workflow and the median.
Timing

- Sign up at anytime
- Data collection is estimated to take a few days of a senior E&P data manager’s time
- AUPEC will provide you with a report against the latest database
- AUPEC require a two/three week window from data submission to produce your report
Benefits of Participation in the Benchmark
Subsurface Applications Benchmark

Rationalise & Inform

Toolkit Rationalisation, switching off licences and standardisation
Inform support and software delivery issues and new application strategies

Optimise & Validate

Optimise toolset and data management support structure
Validates toolset fitness for purpose

Review & Compare

Obtain an objective review of subsurface applications market place with licencing, geography and play type detail
Compare notes and ideas with Subject Matter Peers
Benchmarking Process

Subsurface Applications Benchmark

Online Data Capture

Browser as portal to database
ID’s & Passwords allocated as required
Training provided by Aupec Project Staff
Enter Workflow Data, Users, etc

Analysis

SQL Analysis Services
Multidimensional Data (SQL Cube)
Statistical Analysis

Reporting

Reporting Services
Soft copy – PDF or PowerPoint
Customised Report
NDB/Aupec Executive Summary
Summary
Subsurface Applications Benchmark

The study is an independent, anonymous review of subsurface tools, data and support currently in use.

- Gain access to how your tools, data and support structure fit with a peer group of companies
- Report will impact business-critical decisions – potential for software savings
- A repeatable evaluation of subsurface toolkit created as a base study of the ‘As Is’ situation
- Aupec have 25 years of trust in oil and gas benchmarking to ensure value, quality and anonymity
- Contact Mike Coumans at m.coumans@aupec.com for more information